

PTO/SB/08A (08-03)

Substitute for Form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 12

Complete if Known

Application Number	09/766,253
Filing Date	January 19, 2001
First Named Inventor	Thomas Cech
Art Unit	1634
Examiner Name	Carla J. Myers
Attorney Docket Number	015389-002921US

U.S. PATENT DOCUMENTS+

Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
CM	A1	US-3,817,837	06-18-1974	Tanenholtz et al.	
	A2	US-3,850,752	11-26-1974	Schuurs et al.	
	A3	US-3,939,350	02-17-1976	Kronick et al.	
	A4	US-3,996,345	12-01-1976	Ullman et al.	
	A5	US-4,275,149	06-23-1981	Litman et al.	
	A6	US-4,277,437	07-07-1981	Maggio	
	A7	US-4,366,241	12-28-1982	Tom et al.	
	A8	US-4,683,195	07-28-1987	Mullis et al.	
	A9	US-4,683,202	07-28-1987	Mullis	
	A10	US-4,816,567	03-28-1989	Cabilly et al.	
	A11	US-4,965,188	10-23-1990	Mullis et al.	
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	A16	US-5,770,422	06-23-1998	Collins	
	A17	US-5,917,025	06-29-1999	Collins	
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	A29	US-6,517,834 B1	02-11-2003	Weinrich et al.	
	A30	US-6,608,188 B1	08-19-2003	Tsuchiya et al.	
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	A33	US-6,627,619 B2	09-30-2003	Cech et al.	
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	A35	US 2003-0009019 A1	01-09-2003	Cech et al.	
	A36	US 2003-0032075 A1	02-13-2003	Cech et al.	
	A37	US 2003-0044953 A1	03-06-2003	Cech et al.	
	A38	US 2003-0059787 A1	03-27-2003	Cech et al.	
	A39	US 2003-0096344 A1	05-22-2003	Cech et al.	
CM	A40	US 2003-0100093 A1	05-29-2003	Cech et al.	
CM	A41	US Application No. 09/432,503		Cech et al.	

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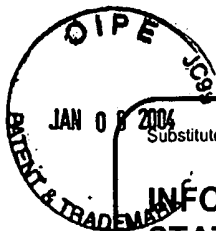
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Date
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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/766,253
		Filing Date	January 19, 2001
		First Named Inventor	Thomas Cech
		Art Unit	1634
		Examiner Name	Carla J. Myers
Sheet 2 of 12	Attorney Docket Number	015389-002921US	

U.S. PATENT DOCUMENTS+						
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number Kind Code ² (if known)				
CJ	A42	U.S. Application No. 09/721,477		Cech et al.		
CJ	A43	U.S. Application No. 09/721,508		Cech et al.		
CJ	A44	U.S. Application No. 90/974,584		Cech et al.		

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
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	B24	PCT	WO 99/38964	A2	08-05-1999			<input type="checkbox"/>
	B25	PCT	WO 00/46355	A2	08-10-2000			<input type="checkbox"/>

Examiner Signature	<i>Chup</i>	Date Considered	4-13-04
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PTO/SB/08B (08-03)

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Sheet 3 of 12**Complete if Known**

Application Number	09/766,253
Filing Date	January 19, 2001
First Named Inventor	Thomas Cech
Art Unit	1634
Examiner Name	Carla J. Myers
Attorney Docket Number	015389-002921US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Cm	C1	ADAMSON, D. et al. "Significant Telomere Shortening in Childhood Leukemia", Cancer Genet. Cytogenet, 1992; pp. 204-206, Vol. 61	
	C2	ANDERSON and YOUNG, "Quantitative Filter Hybridization" in Nucleic Acid Hybridization, 1985, pp. 73-111	
	C3	AUSUBEL et al., Current Protocols in Molecular Biology, 1989, John Wiley & Sons, New York NY	
	C4	AUTEXIER et al., "Reconstitution of human telomerase activity and identification of a minimal functional region of the human telomerase RNA," EMBO J, 1996, pp. 5928-5935, Vol. 15	
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	C6	AUXEXIER and GREIDER, "Functional reconstitution of wild-type and mutant Tetrahymena telomerase," Genes Develop., 1994, pp. 563, Vol. 8	
	C7	AVILION, A., "Characterization and expression of human telomerase," Dissertation Abstracts International, 1996, pp. 5930-B, Vol. 56, No. 11	
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	C9	BERGER and KIMMEL (Eds), "Guide to Molecular Cloning Techniques", Methods in Enzymology, 1987, vol. 152, Academic Press, San Diego CA	
	C10	BIESSMAN et al., "Addition of Telomere-Associated HeT DNA Sequences "Heals" Broken Chromosome Ends in Drosophila," Cell, 1990, pp. 663, Vol. 61	
	C11	BITTER, G. et al., "Expression and secretion vectors for yeast," Methods in Enzymology, 1987, pp. 516-544, Vol. 153, Academic Press, Inc.	
	C12	BLACKBURN and CHIOU, "Non-nucleosomal packaging of a tandemly repeated DNA sequence at termini of extrachromosomal DNA coding for rRNA in Tetrahymena," Proc. Natl. Acad. Sci., 1981, pp. 2263, Vol. 78	
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	C14	BLACKBURN, "Telomerases," Ann. Rev. Biochem., 1992, pp. 113, Vol. 61	
	C15	BRADFORD, "A Rapid and Sensitive Method for the Quantitation of Microgram Quantities of Protein Utilizing the Principle of Protein-Dye Binding," Anal. Biochem., 1976, pp. 248, Vol. 72	
	C16	BRAUNSTEIN et al., "Transcriptional silencing in yeast is associated with reduced nucleosome acetylation," Genes Develop., 1993, pp. 592, Vol. 7	
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Examiner Signature		Date Considered	4-13-04
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Submission for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 12

Complete if Known

Application Number	09/766,253
Filing Date	January 19, 2001
First Named Inventor	Thomas Cech
Art Unit	1634
Examiner Name	Carla J. Myers
Attorney Docket Number	015389-002921US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CM	C18	CARUTHERS et al., "New chemical methods for synthesizing polynucleotides," Nucleic Acids Res. Symp. Ser., 1980, pp. 215-223	
✓	C19	CHAN and TYE, "Organization of DNA sequences and replication origins at yeast telomeres," Cell, 1983, p. 563, Vol. 33	
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✓	C25	COLLINS et al., "Purification of Tetrahymena telomerase and cloning of genes encoding the two protein components of the enzyme," Cell, 1995, pp. 677-686, Vol. 81	
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✓	C28	COOMBS, Dictionary of Biotechnology, 1994, Stockton Press, New York NY	
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✓	C30	COUNTER et al., "The catalytic subunit of yeast telomerase," Proc. Natl. Acad. Sci. U.S.A., 1997, 9202-9207, Vol. 94.	
✓	C31	COUNTER et al.; "Telomerase Activity in Normal Leukocytes and in Hematological Malignancies"; Blood; May 1, 1995; pp. 2315-2320, Vol. 85	
✓	C32	COUNTER et al.; "Telomere shortening associated with chromosome instability is arrested in immortal cells which express telomerase activity" The EMBO Journal; 1992; Vol. 11; No. 5, pp. 1921-1929	
✓	C33	COUNTER et al; "Telomerase activity in human ovarian carcinoma"; Proc. Natl. Acad. Sci USA; April 1994; Vol. 91; pp. 2900-2904	
✓	C34	CREIGHTON, T. Proteins, Structures and Molecular Principles, 1983, WH Freeman and Co, New York, NY	

Examiner
Signature

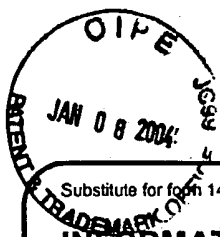
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		Filing Date	January 19, 2001		
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CM	C35	DE LANGE, et al.; Structure and Variability of Human Chromosome Ends; <i>Molecular and Cellular Biology</i> ; February 1990; Vol. 10, No. 2; pp. 518-527	
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✓	C39	FENG et al., "The RNA Component of Human Telomerase," <i>Science</i> , 1995, pp. 1236-1241, Vol. 269	
✓	C40	FLAVELL, R. & MATHIAS, R. "Prospects for transforming monocot crop plants", <i>Nature</i> , 12 Jan. 1984, pp. 108-109, Vol. 307.	
✓	C41	FRESHNEY, <i>Culture of Animal Cells, A Manual Basic Technique</i> , 1983, Alan R. Liss, Inc. New York.	
✓	C42	Genbank Accession No. A46242 (NATARAJAN et al.) 1992	
✓	C43	Genbank Accession No. AA299878 (ADAMS et al.) April 18, 1997	
✓	C44	Genbank Accession No. AA311750 (ADAMS et al.) April 19, 1997	
✓	C45	Genbank Accession No. L38903 (ZAHNER et al.) July 26, 1996	
✓	C46	Genbank Accession No. Q06163 (DU, Z.) 1995	
✓	C47	Genbank Accession No. S39696 (GLASER et al.) 1993	
✓	C48	Genbank Accession No. S53396, (DU, Z.) 1995	
✓	C49	GenBank Accession No. U95964, (Linger et al.) May 5, 1997	
✓	C50	GenBank, EST Database, Accession No. W70315, (HILLIER, et al.) October 17, 1996	
✓	C51	Genome Issue of <i>Science</i> , 1994, pp. 1981-2144, Vol.265.	

Examiner Signature	<i>CM Myers</i>	Date Considered	4-13-04
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Sheet 6 of 12

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Ch	C52	GILLEY, D. et al., "Altering specific telomerase RNA template residues affects active site function," Genes Develop., 1995, pp. 2214-2226, Vol. 9, Cold Spring Harbor Laboratory Press.	
✓	C53	GLASER, P. et al. "Bacillus subtilis genome project: cloning and sequencing of the 97 kb region from 325" to 333" Molecular Microbiology, 1993, pp. 371-384, Vol. 10, No. 2.	
✓	C54	GOODMAN, R. et al. "Gene Transfer in Crop Improvement", Science, 3 April 1987, pp. 48-54, Vol. 236.	
✓	C55	GOTTSCHLING, D. and CECH, T. "Chromatin Structure of the Molecular Ends of Oxytricha Mononuclear DNA: Phased Nucleosomes and a Telomeric Complex," Cell, Sept. 1984, pp. 501-510, Vol. 38	
✓	C56	GOTTSCHLING, D. and ZAKIAN, V. "Telomere proteins: specific recognition and protection of the natural termini of Oxytricha macronuclear DNA," Cell, 1986, pp. 195-205, Vol. 47	
✓	C57	GRAY, J.T. et al., "Cloning and expression of genes for the Oxytricha telomere-binding protein specific subunit interactions in the telomeric complex," Cell, 1991, pp.807-814, Vol. 67.	
✓	C58	GREENWOOD, S. et al., "Phylogenetic relationships within the class oligohymenophorea, phylum ciliophora, inferred from the complete small subunit rRNA gene sequences of Colpidium campylum, Glaucoma chattoni, and Opisthonecta henneguyi," J. Mol. Evol., 1991, pp. 163-174, Vol. 33	
✓	C59	GREIDER, C. "Telomerase is processive," Mol. Cell. Biol., Sept. 1991, p. 4572-4580, Vol. 11	
✓	C60	GREIDER, C. "Telomere Length Regulation," Ann. Rev. Biochem., 1996, pp. 337-365, Vol. 65, Cold Springs Harbor Laboratory Press, New York.	
✓	C61	GREIDER, C. "Telomeres, Telomerase and Senescence"; BioEssays; 1990; pp. 363-369, Vol. 12, No. 8.	
✓	C62	GREIDER, C. and BLACKBURN, E. "A telomeric sequence in the RNA of Tetrahymena telomerase required for telomere repeat synthesis," Nature, Jan. 1989, pp. 331-337, Vol. 337	
✓	C63	GREIDER, C. and BLACKBURN, E. "Identification of a specific telomere terminal transferase activity in Tetrahymena extracts," Cell, Dec. 1985, 405-413, Vol. 43	
✓	C64	HAMPTON et al. <i>Serological Methods a Laboratory Manual</i> , 1990, APS Press, St Paul MN	
✓	C65	HARLEY, C. "Telomere loss: Mitotic clock or genetic time bomb?" Mutation Research; 1991; pp. 271-282, Vol. 256, Elsevier Science Publishers.	
✓	C66	HARLEY, C. & VILLEPONTEAU, B. "Telomeres and telomerase in aging and cancer" Current Opinion in Genetics and Development; 1995, pp. 249-255, Vol. 5.	
CH	C67	HARLEY, C. et al. "Telomeres shorten during ageing of human fibroblasts", Nature, 31 May 1990; pp. 458-460, Vol. 345.	

Examiner
Signature

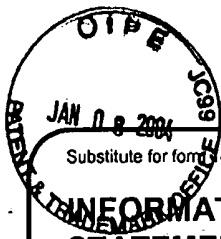
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Sheet 7 of 12

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Am ✓	C68	HARRINGTON et al., "A Mammalian Telomerase-Associated Protein," Science, Feb. 1997, pp. 973-977, Vol. 275	
✓	C69	HARRINGTON et al., "Human telomerase contains evolutionarily conserved catalytic and structural subunits," Genes Dev., 1997, pp. 3109-3115, Vol. 11.	
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✓	C71	HASTIE, N. et al. "Telomere reduction in human colorectal carcinoma and with ageing", Nature, 30 August 1990, pp. 866-868, Vol. 346.	
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✓	C73	HENDERSON, E. and BLACKBURN, E. "An overhanging 3' terminus is a conserved feature of telomeres," Mol. Cell. Biol., Jan. 1989, p. 345-348, Vol. 9, No. 1.	
✓	C74	HIYAMA, E. et al. "Correlating telomerase activity levels with human neuroblastoma outcomes"; Nature Medicine; 3 March 1995; pp. 249-255, Vol. 1, No. 3.	
✓	C75	HOLTZMANN, K. et al. "Telomeric Associations and Loss of Telomeric DNA Repeats in Renal Tumors", Genes, Chromosomes & Cancer, 1993, pp. 178-181, Vol. 6.	
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✓	C77	HUDSON et al., "An STS-based map of the human genome," Science, 1995, p. 1945, Vol. 270	
✓	C78	HUSE, W. et al., "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda," Science, 1989, p. 1275-1281, Vol. 246	
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✓	C81	JOLLIFFE, L.K. "Humanized antibodies: enhancing therapeutic utility through antibody engineering", Int. Rev. Immunol., 1993, pp. 241-250, Vol. 10	
✓	C82	KILIAN, A. et al., "Isolation of a candidate human telomerase catalytic subunit gene, which reveals complex splicing patterns in different cell types," Hum. Mol. Genet., 1997, pp. 2011-2019, Vol. 6, No. 12.	
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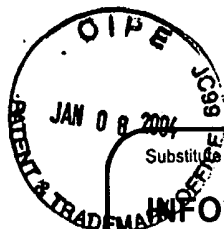
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 8 of 12

Complete if Known

Application Number	09/766,253
Filing Date	January 19, 2001
First Named Inventor	Thomas Cech
Art Unit	1634
Examiner Name	Carla J. Myers
Attorney Docket Number	015389-002921US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CK	C84	KIPLING and COOKE, "Hypervariable ultra-long telomeres in mice," <i>Nature</i> , 1990, p. 400, Vol. 347	
✓	C85	KLINGELHUTZ, A. et al. "Restoration of Telomeres in Human Papillomavirus- Immortalized Human Anogenital Epithelial Cells"; <i>Molecular and Cellular Biology</i> ; Feb. 1994, pp. 961-969, Vol. 14, No. 2.	
✓	C86	KLOBUTCHER et al., "All gene-sized DNA molecules in four species of hypotrichs have the same terminal sequence and an unusual 3' terminus," <i>Proc. Natl. Acad. Sci.</i> , 1981, p. 3015, Vol. 78	
✓	C87	KOEHLER and MILSTEIN, "Continuous cultures of fused cells secreting antibody of predefined specificity," <i>Nature</i> , 1975, pp. 495-497, Vol. 256.	
✓	C88	KOZBOR, D. & RODER, J. "The production of monoclonal antibodies from human lymphocytes," <i>Immunol. Today</i> , 1983, p. 72, Vol. 4.	
✓	C89	LAMOND, A. and SPROAT, B. "Isolation and Characterization of Ribonucleoprotein Complexes", <i>RNA Processing Vol. 1 A Practical Approach</i> , 1994, pp. 103-140, Eds. Higgins & Hames, Oxford University Press, New York.	
✓	C90	LAMOND, A. et al. "Probing the structure and function of U2 snRNP with antisense oligonucleotides made of 2'-OMe RNA," <i>Cell</i> , July 1989, pp. 383-390, Vol. 58.	
✓	C91	LENDVAY, T. et al., "Senescence mutants of <i>Saccharomyces cerevisiae</i> with a defect in telomere replication identify three additional EST genes," <i>Genetics</i> , Dec. 1996, pp. 1399-1412, Vol. 144	
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✓	C93	LINGNER et al., "Telomerase RNAs of different ciliates have a common secondary structure and a permuted template," <i>Genes Develop.</i> , 1994, p. 1984, Vol. 8	
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✓	C95	LINGNER et al., "Reverse transcriptase motifs in the catalytic subunit of telomerase," <i>Science</i> , April 25, 1997; pp. 561-567, Vol. 276.	
✓	C96	LINGNER et al., "Telomerase and DNA End Replication: No Longer a Lagging Strand Problem?," <i>Science</i> , 1995, p. 1533, Vol. 269	
✓	C97	Linking telomerase and tumors; <i>Genesis Report- Dx</i> ; 1995; Vol. 4, No. 6; Publisher Genesis Group Associates, Abstract only.	
✓	C98	LOWY, I. et al. "Isolation of transforming DNA: Cloning the hamster apt gene," <i>Cell</i> , Dec. 1980, p. 817-823, Vol. 22.	
✓	C99	LUNDBLAD, V. & BLACKBURN, E., Letter to the Editor entitled, "RNA-Dependent Polymerase Motifs in EST1: Tentative Identification of a Protein Component of an Essential Yeast Telomerase", <i>Cell</i> , 23 Feb. 1990, pp. 529-530, Vol. 60.	

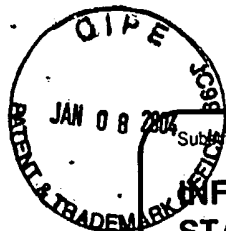
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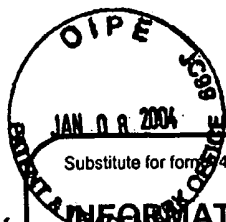
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	09/766,253		
		Filing Date	January 19, 2001		
		First Named Inventor	Thomas Cech		
		Art Unit	1634		
		Examiner Name	Carla J. Myers		
Sheet	9	of	12	Attorney Docket Number	015389-002921US

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✓	C100	LUNDBLAD, V. & BLACKBURN, E., Letter to the Editor entitled, "RNA-Dependent Polymerase Motifs in EST1: Tentative Identification of a Protein Component of an Essential Yeast Telomerase", <i>Cell</i> , 23 Feb. 1990, pp. 529-530, Vol. 60.	
✓	C101	LUSTIG, A. & PETES, T. "Identification of yeast mutants with altered telomere structure," <i>Proc. Natl. Acad. Sci.</i> , March 1986, pp. 1398-1402, Vol. 83	
✓	C102	LUSTIG, ARTHUR J., "The identification of telomerase subunits: catalysing telomere research", <i>Trends in Cell Biology</i> ; August 1997, pp. 299-302, Vol. 7.	
✓	C103	MADDOX, D.E. et al. "Elevated serum levels in human pregnancy of a molecule immunochemically similar to eosinophil granule major basic protein," <i>J. Exp. Med.</i> , Oct. 1983, pp. 1211-1226, Vol. 158	
✓	C104	MAKAROV, V. et al. "Nucleosomal Organization of Telomere-Specific Chromatin in Rat," <i>Cell</i> , 1993, p. 775-787, Vol. 73	
✓	C105	MALICKI, J. et al. "A human HOX4B regulatory element provides head-specific expression in <i>Drosophila</i> embryos", <i>Nature</i> , 23 July 1992, pp. 345-357, Vol. 358.	
✓	C106	McEACHERN, M. & BLACKBURN, E. "Runaway telomere elongation caused by telomerase RNA gene mutations," <i>Nature</i> , August 1995, pp. 403-409, Vol. 376.	
✓	C107	MELBY, P. et al. "Quantitative measurement of human cytokine gene expression by polymerase chain reaction," <i>J. Immunol. Meth.</i> , 1993, pp.235-244, Vol. 159	
✓	C108	MERRIFIELD, R.B. "Solid phase peptide synthesis. I. The synthesis of a tetrapeptide," <i>J. Am. Chem. Soc.</i> , July 1963, pp. 2149-2154, Vol. 85.	
✓	C109	MEYERSON, M. et al., "hEST2, the Putative Human Telomerase Catalytic Subunit Gene, Is Up-Regulated in Tumor Cells and during Immortalization," <i>Cell</i> , August 1997, pp. 785-795, Vol. 90	
✓	C110	MURRAY, In McGraw Hill Yearbook of Science and Technology, 1992, pp. 191-196, McGraw Hill, New York	
✓	C111	NAKAMURA, T. et al., "Telomerase Catalytic Subunit Homologs from Fission Yeast and Human," <i>Science</i> , August 1997, pp. 955-959, Vol. 277	
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✓	C114	NATARAJAN et al. "Major histocompatibility complex determinants select T-cell receptor alpha chain variable region dominance in a peptide-specific response." <i>Proc. Natl. Acad. Sci.</i> , Oct 1992, pp. 8874-8878, Vol. 19.	
✓	C115	NIELSEN et al., "Peptide nucleic acids (PNAs): Potential antisense and anti-gene agents," <i>Anticancer Drug Des.</i> , 1993, pp. 53-63, Vol. 8.	

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Sheet 10 of 12

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Application Number	09/766,253
Filing Date	January 19, 2001
First Named Inventor	Thomas Cech
Art Unit	1634
Examiner Name	Carla J. Myers
Attorney Docket Number	015389-002921US

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CM	C118	OKA, Y. et al. "Inverted terminal repeat sequence in the macronuclear DNA of Stylonychia pustulata," Gene, 1980, pp. 301-306, Vol. 10	
✓	C117	OLOVNIKOV, A.M., "A Theory of Marginotomy: The incomplete copying of template margin in enzymic synthesis of polynucleotides and biological significance of the phenomenon," J. Theor. Biol., 1973, p. 181, Vol. 41.	
✓	C118	ORLANDI et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction," Proc. Natl. Acad. Sci., May 1989, pp. 3833-3837, Vol. 86	
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✓	C120	POTRYKUS, I. et al. "Direct gene transfer to cells of a graminaceous monocot", Mol. Gen. Genet., 1985, pp. 183-188, Vol. 199.	
✓	C121	PRESCOTT, D. "The DNA of Ciliated Protozoa," Microbiol. Rev., June 1994, pp. 233-267, Vol. 58, No. 2.	
✓	C122	PRICE, C.M. "Fluorescence in Situ Hybridization" Blood Reviews, 1993, p. 127, Vol. 7	
✓	C123	RAYMOND, E., et al.; Agents that target telomerase and telomeres; Curr. Opin. Biotechnol.; 1996; 7:583-91	
✓	C124	RHODES, C. et al. "Transformation of maize by electroporation of embryos," Meth. Mol. Biol., 1995, pp. 121-131, Vol. 55.	
✓	C125	RHYU, M.S. "Telomeres, telomerase, and immortality"; J. Natl. Cancer Inst.; 21 June 1995; pp. 884-894, Vol. 87, No. 12.	
✓	C126	ROBERGE, J. et al., "A strategy for a convergent synthesis of N-linked glycopeptides on a solid support," Science, July 1995, pp. 202-204, Vol. 269	
✓	C127	ROMERO, D. and BLACKBURN, E. "A conserved secondary structure for telomerase RNA," Cell, Oct. 1991, pp. 343-353, Vol. 67	
✓	C128	SAMBROOK et al., Molecular Cloning, A Laboratory Manual, 1989, pp. 16.2-16.10, Cold Spring Harbor Press, Plainview NY	
✓	C129	SANDELL, L. et al., "Transcription of yeast telomere alleviates telomere position effect without affecting chromosome stability," Proc. Natl. Acad. Sci., 1994, pp. 12061-12065, Vol. 91	
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✓	C131	SCHARF, D. et al. "Heat stress promoters and transcription factors," Result Probl. Cell Differ. 1994, pp. 125-162, Vol. 20	

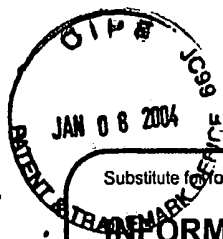
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CH	C132	SCHWARTZ, H. et al. "Telomere Reduction in Giant Cell Tumor of Bone and with Aging"; Cancer Genet Cytogenet; 1993; pp. 132-138, Vol. 71, Elsevier Science Publishing Co., Inc., New York, U.S.A.	
✓	C133	SHAMPAY, J. and BLACKBURN, E. "Generation of telomere-length heterogeneity in Saccharomyces cerevisiae," Proc. Natl. Acad. Sci., Jan. 1988, pp. 534-538, Vol. 85	
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✓	C135	SINGER, M. & GOTTSCHLING, D. "TLC1: Template RNA Component of Saccharomyces cerevisiae Telomerase," Science, Oct. 1994, pp. 404-409, Vol. 266	
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✓	C138	STARLING, J.A. et al., "Extensive telomere repeat arrays in mouse are hypervariable," Nucleic Acids Res., 1990, pp. 6881-6888, Vol. 18, No. 23	
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✓	C142	TRASK, B. "Fluorescence in situ hybridization: application in cytogenetics and gene mapping," (1991) Trends Genet., May 1991, pp. 149-154, Vol. 7, No. 5	
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✓	C145	WEINRICH, S. et al., "Reconstitution of human telomerase with the template RNA component hTR and the catalytic protein subunit hTRT," Nat. Genet., December 1997, pp. 498-502, Vol. 17, No. 4.	
✓	C146	WELLINGER, R. et al., "Origin activation and formation of single-strand TG1-3 tails occur sequentially in late S phase on a Yeast linear plasmid," Mol. Cell. Biol., July 1993, pp. 4057-4065, Vol. 13, No. 7.	
✓	C147	WELLINGER, R. et al., "Saccharomyces Telomeres Acquire Single-Strand TG1-3 Tails Late in S Phase," Cell, 1993, pp. 51-60, Vol. 72	
✓	C148	Whitehead Institute/MIT Center for Genome Research, Genetic Map of the Mouse, Database Release 10, April 28, 1995	

Examiner Signature	<i>Carla J. Myers</i>	Date Considered	4-13-04
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CM	C149	WIGLER, M. et al., "Transfer of purified herpes virus thymidine kinase gene to cultured mouse cells," Cell, 1997, pp. 223-232, Vol. 11	
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✓	C151	WINTER, G. & HARRIS, W. "Humanized Antibodies", Trends Pharmacol. Sci., May 1993, pp. 139- 143, Vol. 14.	
✓	C152	WINTER, G. and MILSTEIN, C. "Man-made antibodies," Nature, Jan. 1991, pp. 293-299, Vol. 349	
✓	C153	WIRTH, URS et al; "Immediate-Early RNA 2.9 and Early RNA 2.6 of Bovine Herpesvirus 1 Are 3' Coterminal and Encode of Putative Zinc Finger Transactivator Protein"; <i>Journal of Virology</i> ; May 1992; pp. 2763-2772, Vol. 66, No. 5.	
✓	C154	WRIGHT, J. et al., "Saccharomyces telomeres assume a non-nucleosomal chromatin structure," Genes Develop., 1992, pp. 197-210, Vol. 6	
✓	C155	YU et al., "In vivo alteration of telomere sequences and senescence caused by mutated <i>Tetrahymena</i> telomerase RNAs," Nature, March 1990, p. 126-132, Vol. 344	
✓	C156	ZAHLER and PRESCOTT, "Telomere terminal transferase activity in the hypotrichous ciliate <i>Oxytricha</i> <i>nova</i> and a model for replication of the ends of linear DNA molecules," <i>Nucleic Acids Res.</i> , 1988, p. 6953, Vol. 16	
✓	C157	ZAKIAN, Telomeres: Beginning to Understand the End," <i>Science</i> , 1995, p. 1601-1607, Vol. 270	
✓	C158	ZAUG, A. et al., "Catalysis of RNA Cleavage by a Ribozyme Derived from the Group I Intron of <i>Anabaena</i> Pre-tRNA ^{Leu} ," <i>Biochemistry</i> , 1994, pp. 14935-14947, Vol. 33	
✓	C159	ZAUG, A., et al., "Method for determining RNA 3' ends and application to human telomerase RNA", <i>Nucleic Acids Research</i> , 1996, pp. 532-533, Vol. 24, No. 3.	

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